

Slide 1 NapaSan Board of Directors Meeting – May 6, 2020



SCADA MP Background

- SCADA Master Plan (SCADA MP) 2007
 - Proposed 3 Phases of projects
 - Urgent and Important project were completed
 - Useful projects are either underway or have been reevaluated
- Westin Technology Solutions prepared the current and 2007 SCADA MP

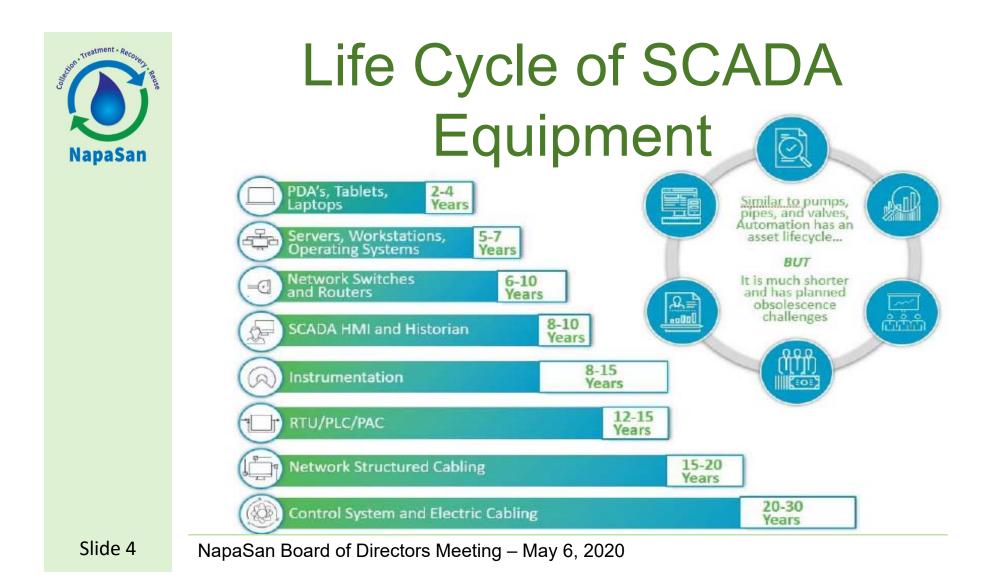
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Goals of our SCADA MP

- Evaluate short and long term needs and prepare a gap analysis (comparison against BIP)
 - Cyber Security
 - System Architecture
 - Equipment Selection
 - Redundancy
 - Asset Life Cycle

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SCADA MP Phases in a Nutshell

- Urgent Actions Emphasis on security.
- Important Actions Emphasis on SCADA • equipment upgrades.
- Useful Actions Emphasis on control panel • upgrades.

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Proposed Budget (\$3.75M)

	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29	FY 29/30	FY 30/31	FY 31/32	Total	
Infrastructure & Security	\$225K	\$125K	\$150K	\$325K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$825K	\$1.075M
SCADA Equipment P1	\$0	\$0	\$50K	\$50K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100K	
Alarming	\$25K	\$125K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150K	
SCADA Equipment P2	\$0	\$0	\$0	\$0	\$200K	\$225K	\$75K	\$0	\$0	\$0	\$0	\$0	\$500K	\$1.000M
UPS System	\$0	\$0	\$0	\$25K	\$75K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100K	
Software Management	\$0	\$0	\$0	\$0	\$75K	\$75K	\$0	\$0	\$0	\$0	\$0	\$0	\$150K	
Documentation	\$0	\$0	\$0	\$0	\$100K	\$100K	\$0	\$0	\$0	\$0	\$0	\$0	\$200K	
Change Management	\$0	\$0	\$0	\$0	\$50K	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50K	
Control Room	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150K	\$500K	\$0	\$650K	\$1.675N
Control Panels	\$0	\$0	\$0	\$0	\$0	\$0	\$225K	\$350K	\$250K	\$0	\$0	\$0	\$825K	
SCADA MP Update	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200K	\$200K	
TOTAL	\$250K	\$250K	\$200K	\$400K	\$500K	\$400K	\$300K	\$350K	\$250K	\$1500K	\$500K	\$200K	\$3.75M	

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Big Picture Projects

- 1. SCADA Infrastructure and Security
- 2. SCADA Equipment Reliability
- 3. Alarming

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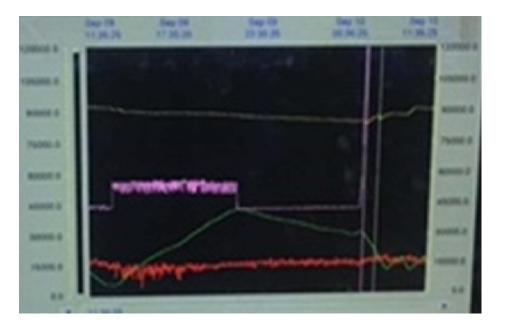
Next Steps

- 1. Incorporate the proposed projects into the CIP.
- 2. Begin implementation of the Urgent Actions.

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Questions



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